

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A fracturing fluid comprising a polar base, 0.1 - 5.0% of a mid-modular weight polyacrylate, and an activator for ionizing said polyacrylate to a hydroscopic state.
2. A fluid as claimed in claim 1, wherein said polyacrylate is a polyacrylic acid polymer cross linked with polyalkenyl ethers or di-vinyl glycol.
3. A fluid as claimed in claim 2, wherein said polyacrylate is present in particles of about 0.2 micron diameter.
4. A fluid as claimed in claim 3, wherein said fluid is provided with 0.1 - 5.0% (wt) of an activator to initiate hydration of said polyacrylate.
5. A fluid as claimed in claim 4, wherein said activator is selected from triethanolamine, NaOH, KOH and NH_4OH .
6. A fluid as claimed in any one of claims 1 to 5, further including a breaker in an amount of 0.1 - 1.0% wt.
7. A fluid as claimed in claim 6, wherein said breaker is encapsulated.
8. A fluid as claimed in claim 6 or 7, wherein said breaker is an organic or inorganic salt.
9. A fluid as claimed in claim 6 or 7, wherein said breaker is NaCl or KCl.
10. A fluid as claimed in any of claims 1 to 9, wherein said polar base is selected from the groups including water, methanol, ethanol, propanol and isopropanol.
11. A fluid as claimed in any of claims 1 to 10, emulsified with liquid CO_2 or N_2 and a surfactant.

0966750-100401

12. A fluid as claimed in claim 11, emulsified with liquid CO₂ in an amount of 50-52% to 94-95% (volume).

13. A fluid as claimed in claim 12, wherein said surfactant is an ethoxylated alkylphenol.

14. A fluid as claimed in claim 11, containing 0-50% N₂ or CO₂.

MOFFAT 05/29/00